

AMENDMENTS TO THE SPECIFICATION

Please amend the Specification pursuant to 37 C.F.R. § 1.121 as follows:

I. Please amend the paragraph beginning on page 17, line 19, as follows:

In step 226, a real-time ECG signal is received from the patient undergoing MRI. At this point, in step ~~232~~ 226, the patient is lying in the MRI machine with ECG probes attached to an ECG machine. The ECG signal is then correlated with the QRS complex template in step 228. Execution of the QRS detection process in real time is carried out by the ongoing correlation of the ECG signal with the template derived as described mathematically above in Equation 1 and pictorially by Figure 7, in part. The output of the correlation is compared with a threshold, and a trigger pulse can be generated when it exceeds the threshold. The threshold can be interactively adjusted as necessary for reliable detection of the QRS complexes.